No 144 March 87 187 224 South Prost Paped March 24th Paped March 24th An Essay on Croup Milmow Whilldin In of Thiladelphia

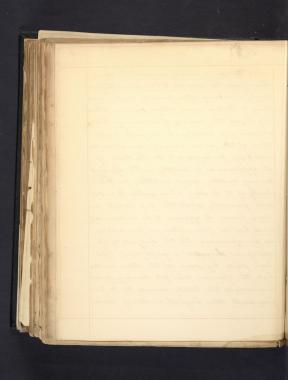


I purpose in the following pages to make a few observations on Group. It is with difference of the many enlighteness for the locality, but as some difference of opinion prevails among them, I shall not heritate to present the rieus I have despited to deceny the course of my make real studies, with respect to its nature and treatment.

Coup has been treated of by writers under different names; by Home it was called Suffocatio Friedrica, by Bullen Granache Trachalis, by Frank, Backetis by Barwin, a pleurity of the Windpipe and we common language is called flood. But as each of denominations is somewhat objectionable, I shall content myself with the popular one of broup.



This disease is nearly, confined to chilo - drew from the second to the seventh year, parely occurring after puberty, and accord ding to Cullen and others seldom attack ing before the periods of wearing. Robust children are mostly its subjects and those of the same family are often pe: -culiarly predisposed to it. The time of its appearance is mostly in the Spring during austere damp weather; partitues larly if it be very changeable. It is met with generally near the sea coast, in some places it appears to be endemical, and has in few instances prevailed as an epidemic. On the subject of its contagious character a great deal has been saide by some of the older writers, but the opinion was for many years abandoneds, till lately revived by Dr Gregory and other English writers of some



note. By them many cases have been advanced in support of their views, but whether or not the disease must be regarded as cortagious, time and further observations must decide, Su N. Among must be suge Journal 2023

In attack of broup is very insidious, the little patient being suized method any pur monition of its appearance with the view sent symptems indicative of the disease. She are a house cough with a peculiar ringing a house soire, compared by some to the banking of a dog, at each inspiration that files is swollen and flushed, and there seems danger of suffication. The child becomes rettip and me change of posture affords him the least paints in some instances the patient sinks under the violence of

there symptoms, but mostly the directer purs a more protected course. Not being relieved we have the evidence of high febrile action, the circulation being accelerated and the direct constituting extends diself to the lungs constituting a case of Pappreumony.

Jaking wet news the proulian symps tons, I have actailed, I cannot agree in subscribing to the common secure ned opinion with respect to the seat of the diseases for whatever have been the notions of physicians with regard to its nature, whether it do funds on impactive mucus, inflame mation or spassed they have almost uniformly placed it in the tracker According to this behing we should, I believe, be at a lop to account for the backury cough and whijzing will

of respiration which accompanies this disease. Did it defend on any affection of the tracked either thickening of its living membrane or spasmodic ac= tron of its muscular fibres, these charace tuistic symptoms of the disease would not I think be produced; for me find the tracked to be a plain circular tube and though its caliber were diminished towe half or even one third of its usual size, we ought not to exfeet to hear more than a slight whereging owing to the rapidity with which the air would have to pass we order to supply the Lungs. "Tis to the Sury my alone then we are to look for those striking phenomena of this decease Whether we consider it as a wind or stringed instrument, still all will admit that it is the proper organ of

trustre my strain of the desired could

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the poice or in other words that the modulations, which the sound pre-- pents as the air paper from the Sungs, depend on the vibrations communica ted by it to the thyreo-arytenoids ligaments. Though air be forced the a tule with the greatest possible rapidity, still we bould not many way produce those modulations without some vibratory motion could be imparted to it. In placing the seat of Croup in the Larynx at do not derry that the Frachea and Bronchice often and indeed in most cases are affected, but de am persuaded that without the Suryny by involved no barking noise will be heard. Taking all these circumstances

Taking all these circumstances into consideration, I think we

would be justified in concluding that the true seat of Croup is in the Laryny, and hence that the names of Cynanche Frachealis which it received from Cullen and of Fran chitis from Trank were foundedon enoneous ideas of the subject. Now is the view I have adopted respecting the reat of Croup found -ded totaly on reasoning and the received opinions respecting the physiology of the voice; for, by a recurrence to the writings of Bland and Desruelles, it will be found to be sustained by a very large series of post morten exuminactions conducted with the greatest care and apiduity Passing now to the Tathology of the disease it will only be necessary to remark

that by an attentive consideration of all I have seen and read on the subject, I am led to the her lief that broup depends in all instances on an initation of the liming membrane of the Jangus amounting after a longer or show amounting after a longer or show the time, if not anested, to instance, if not anested, to instance, if not areas and occasionally group rise to spasmodic contraction of its muscles.

That this is a comet prim of the nature of the case may be inforned from an analysis of all the symptoms, as well as from the anal logy existing between this and other diseases of initation. That inflammation does not exist in all cases we have the proof in the suddeness of the attack and

of the relief afforded by a few we medies of me great power and which will be mentioned hereafter and that spasm of the laryngeal much that spasm of the pymptoms and me will be convinced who reflect that except through the agreet through the agreet those covering other pasts of the same membrane are seldown brought into action, except from the initation of the muccus surface line at the initation of the muccus surface leneath them.

For all our present purposes broup may be divided with two species, the first consisting of all those cases in which the disease depends on irritations of the lining membrane, and the second of

those in which inflammation has supervened. Thus the cases which are suddenly produced appear to consist in simple initation of the mucous living of the Laryny, extending to and producing spasser of its muscles. This has at times been so violent as to close the rie ma glottides and destroy, the patient by suffocation; But this is not common and we find after a short time inflammation of the living membrane taking place, constituting the second species of the disease, accompanied by a secretion of mucous, pur or coagulable lymph, according to the intensity of the inflammar tion and temperament of the patient. From the last of these (coaguteerst by supersting this tree

-lable lymphy an adventitious memhave is formed, living the whole internal surface of the organ and extending together with the inflame mation along the viternal surface of the Frachea and sometimes inc

- volving the Lungs.

The barking noise which account -parries and indeed characterizes Croup and the difficulty of breathing may I think in many instances be attributed to spame of the largue -geal muscles, but the same sympe toms are often produced by a thick - ening of the mucous membrane from inflammation independant of spasme, and also from the pre Lence of the adventitions membrane. The appearances on diffee = tion go to confirm this view of the

pratise of Croup. In cases which have terminated pedding no morbed appearances are discovered. Butwhen it has continued for a few days a went by the usual signs of inflammand mation are met in the Saryers and generally in the Trackers. Here is also found in the Saryers and vacles of found in the Saryers and vacles of grantity of thick matter seems bling mucus and when the Corace has been protect an adventition members as has been before observed

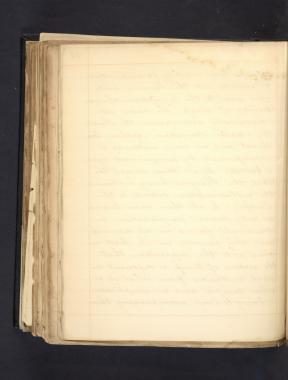
The causes of croup are those of the phlegmasse generally, particular ely add and dump ath. In sewers, in his chapter on crown, sewer of Elder tays that exposure to the weather is har necessary to its production; for, he observes, we have often interped offachs of the dieser from the mere

peralines of a North-East mind, and what in come querce of this mind way precaution has been to her to quard against its influence by confluing the child and keeping it warry.

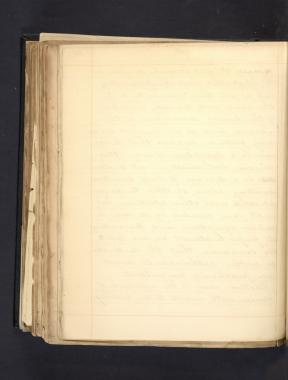
A stomach loaded with acrid injecte is said by In Chapman to be a very puritful source of the direct, and here I might permark we can apign a reason why broup is self-dem met with previous to seconing the child being neuroshed by the blands subtance provided for its support with sultance provided for its support with sultance provided for its support with sultance provided.

Catarrh, as is a chnowledged by almost surry miter, is sometimes complicated with this disease. Nor is the circumstances difficult of explanation, for the inflammation which constitutes

catarrh may readily be understood to extends into the Laryny ands give rise to the symptoms characteristic of Croup. The disease also occasionally accompanies the Small Pox, Measles, Scarlatina, Apthous Love throat and in some instances is accompanied by unequivocal ugns of Gastritis. In all these, except the last, the Thanymy being inflamed, the inflammation extends to the Laryny. In all there cases however we only descover complications to commonly found in all diseases and they cannot in the least in cline us to the supposition that the nature of Croup is different in tuch instances from what it is when simple and uncomplicated. I wing to Crowp accompanying these



diseases it was formerly divided into Ediopathic and Symptomatic, but as all these causes tend to the fame end, narraely, irritation of the living membrane of the Laryny, and as we cannot under any pretence suppose that Croup can be a symptom of any other disease, but must in all instan seds be a disease of itself Sometimes existing alone, at other times complicated with other affections, but in all cases marked by the own he= culiar symptoms, and demanding its proper treatment we are led to the conclusion that the distinction is neither pathologically correct nor practically important. Whatever may be the difference of opinion with respect to the pathology



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of Group physicians pretty nearly agree in the most important point namely it's treatment. Called to a loase in the com = - mencement an emeter well former times check its progress. In those cases which arise from ingesta they are useful in getting rid of offens - sive matters and in all cases they tend to restore an equable cir-= culation. It is well known that imprepions made on the stomach are fett by the whole system and the flow of blood and vital action are diverted from the seat of the disease to the organ acted on and secondarily to the skin.

Contributing to the same end the man bath may, if necessary be employed. In relaying spalm

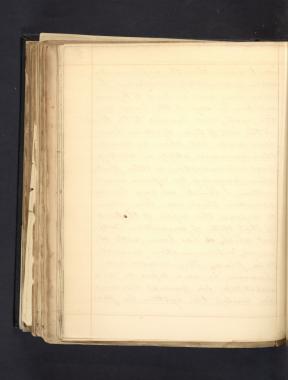
this is one of the most important remedies that can be adopted, and by determining the vital ac. tion to the skin it may act as a revulsive and thus contribute to relieve the initation of the Laryny. Spirits of Turpentine or a mustand cataplasm may also be applied to the shroat! But the disease resisting all these remedies, recourse must be had to others and first to Bloodletting of the efficacy of venesiction in all spasmoodic and inflammas atory diseases, no one at the present day doubts, and in lioup it is particularly required. In its imployment we have no other quide than a subsidence of the distreping symptoms. It is some=

times even necessary to almost drain the system before its full effect is obtained. This is particularly the case when the inflammatory ac= stion is established. Then sparing. by employed the action is not slib. - dued, but only abated, while at the same time there is an expenditure of blood without projeting the potient, and he will not so readily bear the lancet the se-= cond time which will sooner or later become necessary. This practice is reccommended by nearly all who are conversant with the disease.

After principality has been care ried to the extent I have mention med and the unpleasant symptoms continuing there is good pear

wante all who are some rant

-son to believe that the inflammatory action is completely established. Recourse may now be had to topical depletion by cups to the back of the nech, and leeches to the threat. To the last of these objections have been made, but when we consider their immense atility in abating local inflammation in other parts, When preceded by copious vent= - Lection, I think me can hardly abandon their use. They seem to unload the vepels of thepart of that state of congestion mith. -out which, it has been justly ofserved, inflammation cannot take place; They should not however be used before or as a subtitute for general bleeding for unless the system be pro-



sperty reduced they might only touch to increase the disease, by morting a flow of blood to the part by their initations their ment of succept, in some cases in which they have been tried, is perhaps origing to this concumstance of this consumetime the application of a blitter mught probably prove serviceable.

By the faceciding treatment the violent symptoms of Group are generally subdued, and it is necessfaw to pay some attention to the state of the bowers. Here are generally in a torpid state and a purge becomes necessary Calonel when Rhubards or Jalap may be ad:

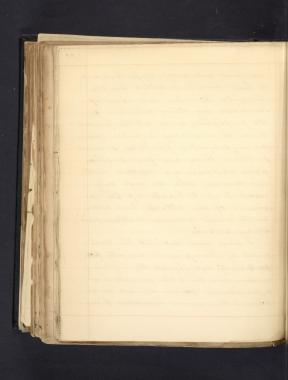
Mutants or Jalap may be ad:

this practice is seen great; by it me do away the disposition to inflammation, first by inviting the
flow of blood and initation from
the Laryng to the intestinal surface, and secondly by the depletion they occasion from thom
parts.

In most caus Roup leaves he which it a slight cough and
hoasumep which are best relieved
by the use of expectorant. By the
archer of Maryland the Polygan
La senega has been much hecommended, but more, I believe,
may be expected from this the
diame in combination mich the
squill and Sartar Enetic in
the form of the Compound syrap
of squill of the Supervalory. This

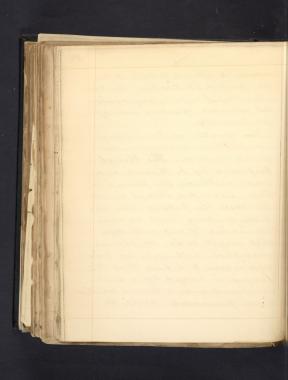
mas first introduced by br. Coye, and to him me are inabbted for the formula. Its halve mas soon offree cated by other members of the propertion, and at the present time it is a very popular semedy in donestic practice, so much so that there are few mother, whose cheldren are affected mith this direct, who do not only the sessent to is to break up the sessent of an attack, but often by its timely administration mad off an attack

I have now described the treat = ment of Goup as it usually propost itself but should the inflammation sum on to the formation of a membrane me are advised in dodition to the usual remedies to en-



deavour to get sid of it; and for this purpose Emetics have been und. These are, I express, very equisscal semedies operating merely mechanically.

The operation of nacheotopy has also been recommended for its removal. This, though performed by br Physick in serveral instances, has men, I be live the cases the patents mue has pidly finking. Buld me clear the tracken of any obstruction that might event me should accompain nothing, as me have good reason to believe that the Janyng is covered by a suming a memorane, to person wheat, I am persuaded, mould be



impossible. But admitting me could get rid of the membrane me mould mor, by that means, overcome the action that produced it and in such an emergency, little expectation of a recovery is to be loss. But for; and I should be more content with Resping the partient in the best position for heathing, and endeavouring to mer come any spannodic or inflammatory action that might exist.

Then Broup is complicated

When Croup is complicated with other decases, there demand attention and the remedies proper for them should be had recourse to, as the same time me should endeavour to remove the affection of the Laryny.

I have now finished an ac-- count of my views with respect to the nature of Croup. Though hastely and imperfectly drawn up they have not been adopted without due consideration of The subject. Tis from the observations of others I have deduced them consequently they are in a great measure theoretical and I am ready to speeld them to the lepons of experience.

